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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/667,249	09/17/2003	Michael David Leffel	1052.041	1129	
22186	7590 07/27/2005		EXAMINER		
MENDELS	OHN AND ASSOCIA	NGUYEN, KHANH V			
1500 JOHN F	F. KENNEDY BLVD., S HIA, PA 19102	UTIE 405	ART UNIT	PAPER NUMBER	
PHILADELP	:niA, FA 19102		2817		

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/667,249	LEFFEL, MICHAEL DAVID				
Office Action Summary	Examiner	Art Unit				
•	Khanh V. Nguyen	2817				
The MAILING DATE of this communication app		orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>17 September 2003</u> .						
, ,,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-66 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-36 and 41-66</u> is/are rejected.	6)⊠ Claim(s) <u>1-36 and 41-66</u> is/are rejected.					
7) Claim(s) <u>37-40</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	• .					
· 9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>17 September 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	, ,,	·				
* See the attached detailed Office action for a list of the certified copies not received.						
		·				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Drawings

Figures 1-12 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-21 recite the limitation "**The** invention" in line 1. There is insufficient antecedent basis for this limitation in the claim. "**The** invention" should correctly be --the method--.

Claims 21-46 recite the limitation "**The** invention" in line 1. There is insufficient antecedent basis for this limitation in the claim. "**The** invention" should correctly be --the apparatus--.

Claims 47-56 recite the limitation "**The** invention" in line 1. There is insufficient antecedent basis for this limitation in the claim. "**The** invention" should correctly be --the method--.

Claims 57-66 recite the limitation "**The** invention" in line 1. There is insufficient antecedent basis for this limitation in the claim. "**The** invention" should correctly be --the apparatus--.

Claims 1, 22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear which so called "index generator" and "index adjuster" from the drawing/specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1-36, 41-66 are rejected under 35 U.S.C. 102(e) as being anticipated by Vella-Coleiro (20040264596) or (U.S. Application No. 10/607,924).

Regarding claim 1, 22, 47, 57 Vella-Coleiro (Fig. 1) a digital pre-distortion circuit comprising: an index calculation table (28) can be read as an index generator; a processing module (32) can be read as an index adjuster; a look-up table (30); and a pre-distorter (12) having the functions thereof (see [0018] for polynomial equation, [0033]).

Regarding claims 2-21, 23-36, 41, 42, 45, 46, wherein the operational characteristics of the circuit is inherently seen in the reference circuits (Figs. 1-7).

Regarding claims 43, 44, wherein Vella-Coleiro (Fig. 5) comprises multiple lookup tables and a processor can be read as a controller having the function thereof (see [0033]).

Regarding claim 48-56, 58-66, wherein the operational characteristics of the circuit is inherently seen in the reference circuits (Figs. 1-7).

Allowable Subject Matter

Claims 37-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 37-40 call for, among others, a second detector and a receiver having the functions thereof.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Wright et al. (6,459,334)) shows further analogous prior art circuitry predistortion parameters.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHANH VAN NGUYEN PRIMARY EXAMINER

Khaul Can Janger

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